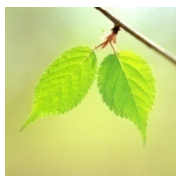
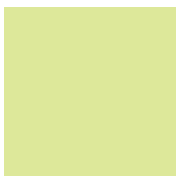
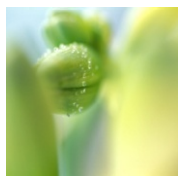
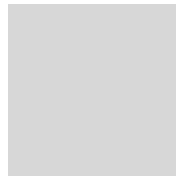
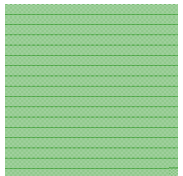
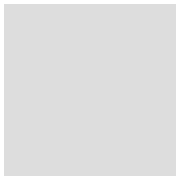




Low Carbon Asia Research (LoCARNet) The 1st Annual Meeting:
Mobilizing Wisdom for a Low Carbon Asia



Thailand Green Growth Policy: Contribution to Low Carbon Transition



Ms. Ladawan Kumpa
Deputy Secretary General, NESDB

16-17 October 2012, Novotel Bangkok on Siam Square

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1 Main Concepts of the 11th NESD Plan

2 The 11th NESD Plan (2012-2016)

3 Strategy for Managing Natural Resources and Environment toward Sustainability

4 Implementation of the 11th Plan

5 Progress on Implementation of the 11th Plan

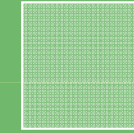




The Main Concept of the 11th NESD Plan



Main Concepts of the 11th National Economic & Social Development Plan





The 11th National Economic & Social Development Plan (2012-2016)



The 11th NESDP: The Direction



Vision

A happy society with equity, fairness and resilience.

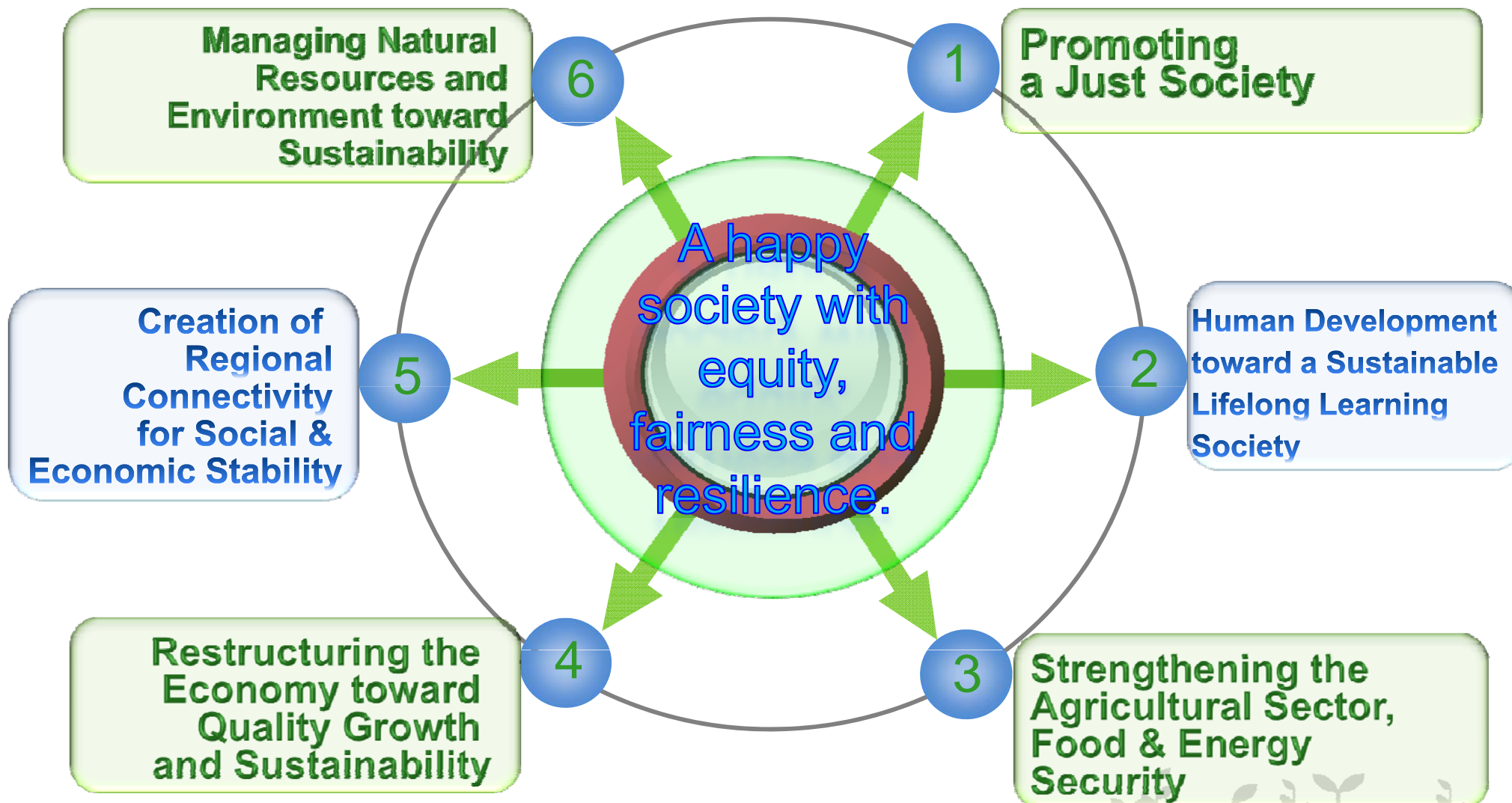
Missions

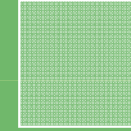
- To promote a fair society of quality
- To develop people with integrity, knowledge & skills; to strengthen social inst. & local communities
- To enhance efficiency of production & services
based on local wisdom, knowledge, innovation & creativity by developing food security while restructuring economy
- To build secure natural resource & environmental bases thru community
Participation & improving resilience to lessen impacts from climate change & disaster

Target

- **Inequality decreases; Society is in harmony**
No. of people under poverty line is reduced; Corruption Perception Index scores at least 5.0
- **All citizens receive lifelong learning opportunity**
better health & social inst. strengthen
- **Inclusive growth with moderate pace**
Upgrading TFP to 3%/yr, improving competitiveness rank, increasing contribution of SMEs to 40% of GDP
- **Environmental quality meets intl. std.**
Improving efficiency in GHG emission reduction; expanding forest areas to restore ecological balance

The 11th NESDP : The Strategies





4 Development Guidelines



Enhance **economic and social security** and creating opportunities while strengthening risk management



Provide **social services** for all in accordance with fundamental rights, emphasize building **self-reliance** of individuals, and encourage **participatory decision making** in the country's development process



Empower **all sectors** with the ability to make choices and offer valuable contributions in social, economic and political activities, with dignity



Enhance **social interactions** that recognize shared values and common interests, and reinforce effective, transparent, and accountable public administration



2 The 11th NESDP: The Strategy for Human Development toward a Sustainable Lifelong Learning Society



5 Development Guidelines



Improve the demographic structure and population distribution



Build resilience, encourage practical learning and knowledge management, utilize outcomes from research and development to ensure career growth and capacity building, and promote suitable life styles



Reduce health risk factors in a holistic manner

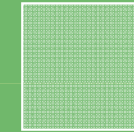


Promote lifelong learning



Reinforce social institutions





7 Development Guidelines



Develop the natural resource base to strengthen the agricultural sector



Prioritize and improve agricultural productivity



Create value added for agricultural products throughout the supply chain



Generate agricultural employment and income security



Establish food security and develop bio-energy at the household and community levels



Secure bio-energy production and strengthen the agricultural sector

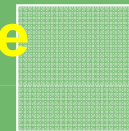


Reform governmental management to strengthen food and energy security



4

The 11th NESDP: The Strategy for Restructuring the Economy toward Quality Growth and Sustainability



4 Development Guidelines



Restructure the economy toward inclusive growth



Develop efficient, equal and fair competitiveness for the country

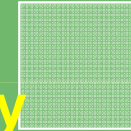


Develop science, technology, research and innovation as driving forces for inclusive growth



Manage the macro-economy to ensure economic stability





7 Development Guidelines



Develop connectivity in **transport and logistics systems** under regional cooperation frameworks



Develop investment bases by improving **competitiveness** in the **Mekong sub-region** and **ASEAN**



Prepare for the **ASEAN Economic Community**



Constructively engage in frameworks for **regional and international cooperation** and secure country's benefits



Create **regional economic partnerships** on **human capital development** and **labor mobility**

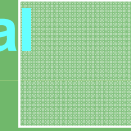


Contribute to the international community's efforts in **fighting against terrorism, international crimes, drug trafficking, natural disasters and epidemics**



Promote **constructive international cooperation** to support **economic growth** in **ethical & sustainable ways**





8 Development Guidelines



Restore, conserve and create security for the natural resource base and the environment



Shift the development paradigm toward an environmentally sustainable, low-carbon economy and society



Enhance the adaptive capacity to handle climate change



Prepare and respond to natural disasters



Protect trade subject to environmental conditions and climate change



Enhance the country's role in international arenas on environmental agreements and commitments



Reduce and control pollution



Enhance natural resource and environmental management systems to be more efficient, transparent and equitable



Strategy for Managing Natural Resources and Environment toward Sustainability :

Key Contribution to Low Carbon Transition



The 11th NESDP: The Strategy for Managing Natural Resources and Environment toward Sustainability



6 Targets

- **Enrich abundance of natural resources & biodiversity**
 - ✓ Conservation land 19% total land area
 - ✓ Forest reserves 40% total land area
 - ✓ Mangrove reforestation 5,000 rai/yr

Conserve, restore natural resources & environment

- **Improve efficiency of GHG mitigation**
- **Reduce pollution**
 - ✓ Water quality regulated 80% of main water sources
 - ✓ Air quality within standard
 - ✓ Total solid waste sanitary disposed 50% total
 - ✓ Recycle waste 30%

Promote sustainable production & consumption

- **Enhance adaptive capacity to meet climate challenges & disasters at community, regional & country levels**
- **Improve entire water management system** to alleviate water shortages, prevent floods, expand irrigation by 200,000 rai/yr

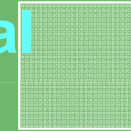
Foster climate change resilience society

- **Increase efficiency in management of natural resources & environment**

Create fairness in access & use of natural resource

4 Objectives

The 11th NESDP: The Strategy for Managing Natural Resources and Environment toward Sustainability



7 Groups of Indicators

Proportion of forest & conservation areas to total land area

Water quality; Air quality; percentage of community waste recycled or sanitary disposed

No. of organizations serving as environmental councils in local community; legislation to protect country's benefit during transition to AEC

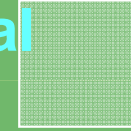
Proportion of villages facing water shortages & flood

Proportion of GHG emission per capita compared to per capita GDP

Magnitude of natural disasters & human + economic loss

Mechanism to manage climate change; databases showing areas at risk from climate change at national, regional, and provincial levels; surveillance and early warning systems in the areas most likely to experience natural disasters

The 11th NESDP: The Strategy for Managing Natural Resources and Environment toward Sustainability



1

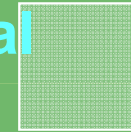


Restore, conserve and create security for the natural resource base and the environment

1. Restore **forest** and conservation areas.
2. Develop **databases** and geographical information systems
3. Reform the overall system of **land ownership** and distribution to be more equitable
4. Accelerate restoration of **soil quality** to increase agricultural productivity and food security.
5. Establish a management system for **marine and coastal resources**
6. Stimulate **integrated water management** to support sustainable food and energy security and alleviate floods and droughts
7. Improve resources to increase the supply in **potential water storage** areas
8. Promote efficient, cost-effective, and **environmentally sound water use**
9. Formulate a **systematic water resource infrastructure master plan** for domestic consumption.
10. Encourage **conservation and share the benefits of biodiversity** equitably



The 11th NESDP: The Strategy for Managing Natural Resources and Environment toward Sustainability



2

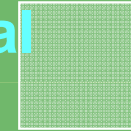


Shift the development paradigm toward an environmentally sustainable, low-carbon economy and society

1. Restructure production sectors toward an environmentally sound low-carbon economy
 - Upgrade industries that have emitted high levels of GHG toward environmentally safe technology
 - Revise industrial promotion policies to provide more benefits for low-carbon industries
 - Accelerate domestic mitigation mechanisms that foster sustainable development and respond to international standards
 - Encourage coexistence of industries with communities through eco-industrial towns where most wastes can be recycled and raw materials managed systematically
 - Encourage sustainable agriculture to support the ecosystem
 - Enhance the service sector's role in economic development specially those with low environmental impact
 - Create market opportunities for environmentally beneficial products and services
2. Increase energy efficiency in the transport sector to reduce GHG emissions
 - Encourage people to use public transit using less energy per unit than road transport
 - Support the use of vehicles with clean or renewable energy - natural gas and bio-fuel
 - Discourage poor driving behavior and excessive speed to reduce fuel consumption



The 11th NESDP: The Strategy for Managing Natural Resources and Environment toward Sustainability



2

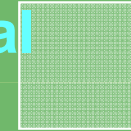


Shift the development paradigm toward an environmentally sustainable, low-carbon economy and society

3. **Develop environmentally friendly cities with emphasis on integrated urban planning having cultural, social and ecological aspects**
 - **Develop compact urban designs where areas are used creatively, with emphasis on the expansion of green spaces and increased energy efficiency**
 - **Utilize tax support and other incentives to redirect technology and materials toward renewable energy**
 - **Supervise intensive land use both inside and beyond cities and establish measures to curb urban sprawl**
 - **Manage an integrated urban environment by using innovative technology for wastewater and solid waste management**
4. **Modify consumption behavior to facilitate the transition to a low carbon and environmentally stable society**
 - **Encourage people from all sectors to be responsible for their ecosystems by applying the Sufficiency Philosophy to their way of life**
 - **Undertake a campaign to change attitudes to create an understanding of the value of sustainable consumption as the norm in the society**
 - **Publicize information and transfer knowledge to people about the environment and sustainable consumption**
 - **Strengthen consumer protection mechanisms**



The 11th NESDP: The Strategy for Managing Natural Resources and Environment toward Sustainability



3

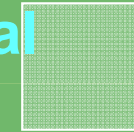


Enhance the adaptive capacity to handle climate change

1. **Develop knowledge about the impact of climate change and adaptation to it**
 - Conduct research for better precision about the causes, forecasting, risk assessment, vulnerability, and impacts from climate change on each sector of the economy
 - Support scientific and technological research and innovation regarding adaptation to greenhouse gas emissions and their reduction
 - Develop a curriculum on climate change and create information networks
 - Establish mechanisms to evaluate data and disseminate climate change information to all sectors
2. **Develop management tools to deal with climate change**
 - Support formulation of long-term plans to cope with climate change and emphasize its economic and social impact
 - Develop databases and reporting systems to measure GHG emission
 - Use fiscal measures as tools in environmental management
 - Set targets for GHG reduction and formulate medium- and long-term action plans for voluntary mitigation
 - Conduct market research to identify revenue opportunities through selling carbon credits
 - Establish a National Registry System to bolster domestic GHG reduction including reports on NAMA activities
 - Establish a carbon fund as a domestic buying source for carbon credits and offsets.



The 11th NESDP: The Strategy for Managing Natural Resources and Environment toward Sustainability



3



Enhance the adaptive capacity to handle climate change

3. Strengthen community readiness to respond to climate change
 - Upgrade the adaptive capacity of vulnerable groups by allocating adequate resources and communicate risks and risk management information
 - Provide short- and long-term measures to deal with damages to the community & society
 - Develop a curriculum on climate change and create information networks
 - Support long-term community planning

4

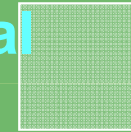


Prepare and respond to natural disasters

1. Map risk areas at the national, regional and provincial levels
2. Upgrade the efficiency of disaster management
3. Develop databases and a telecommunication system
4. Establish disaster relief planning for the entire population
5. Ensure that the private sector, public enterprises, schools and local authorities are well-prepared.



The 11th NESDP: The Strategy for Managing Natural Resources and Environment toward Sustainability



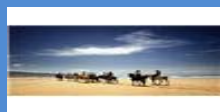
5



Protect trade subject to environmental conditions and climate change

1. Monitor indices of environmental preservation, so as not to impinge on international trade and investment
2. Create measures to cope with the anticipated effects on trade measures and international agreements from environmental protection and climate change
3. Conduct research into the effects of international agreements on trade, and develop strategic plans to alleviate impacts on affected products and businesses
4. Encourage exporters to include carbon footprint information
5. Generate incentives to create innovative industries that practice sustainable development

6

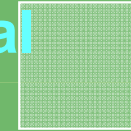


Enhance the country's role in international arenas on environmental agreements and commitments

1. Analyze details of agreements & monitor status of negotiations with other nations
2. Strengthen government officials' negotiating skills
3. Develop cooperation within ASEAN and with major trading partners
4. Support implementation of international agreements on natural resources and the environment



The 11th NESDP: The Strategy for Managing Natural Resources and Environment toward Sustainability



7



Reduce and control pollution

1. Reduce air pollutants, especially particulate matter (PM10)
2. Increase efficiency in solid waste disposal and community wastewater treatment
3. Establish a management system for hazardous, electronic and infected wastes
4. Reduce risks of chemical leakages and accidents
5. Create a warning system together with a management system to address pollution accidents at both national and local levels

8

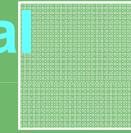


Enhance natural resource and environmental management systems to be more efficient, transparent and equitable

1. Empower communities and support local rights to utilize natural resources in a balanced and sustainable manner
2. Support popular participation and develop community abilities
3. Amend legislation relevant to economic and social changes and enforce laws equitably



The 11th NESDP: The Strategy for Managing Natural Resources and Environment toward Sustainability



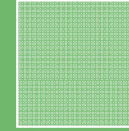
8



Enhance natural resource and environmental management systems to be more efficient, transparent and equitable

4. **Change government investment policy to promote conservation and restoration of natural resources and the environment**
5. **Accelerate collection of environmental taxes and reform the national budget to create incentives for efficient use of natural resources and reduction of pollution**
6. **Generate income from natural resources and biodiversity conservation**
7. **Develop databases, evaluate systems, and support research**

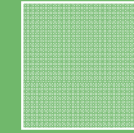




Implementation of The 11th National Plan



Implementation of the 11th Plan



Objectives

- To implement the 11th Plan by people participation
- To integrate action plans from the central to the local government
- To monitor and systematically evaluate progress at all levels - national, regional and local.



Principles

- Pursue the 11th Plan as the main thrust for translating the plan into action at all levels, according to socio-geographic conditions.
- Distribute the benefits of progress to the area level by using the AFP approach. Province is the focus.
- Use knowledge, technology, innovation and creativity as tools to drive growth at all levels
- Employ methods and tools from all stakeholders in a holistic manner. Create networks and clusters in response to local needs



Implementing the 11th Plan in a Systematic Manners

Guidelines for the Plan Implementation



1

- Create a common understanding among all development partners to accept the Plan and participate in making it work

2

- Link the 11th Plan with government policies, Government Administrative Plans and other Plans

3

- Enhance stakeholders' ability by providing an enabling environment

4

- Enhance the efficiency of development methods to improve performance at local, regional and national levels

5

- Strengthen the ability of stakeholders to effectively contribute to progress at every level

6

- Develop an efficient, transparent and participatory system of monitoring and evaluation at all levels





Progress on the Implementation of The 11th National Plan



Moving Forward the 11th Plan



Agriculture Production

Change to environmental friendly agricultural production and practice; Reduce GHG emission; Balance the ecological system by following the Philosophy of Sufficiency Economy, including GAP, sustainable agriculture and organic farming.



Eco-Industrial Town

Based on the concept of balance and integration of economic, social and environment dimensions. Use 3 principles of (1) transition to low-carbon society, (2) participation by all parties, and (3) cluster development.



Natural Resource & Environmental Management

Create enabling factors for sustainable economic growth and citizen's well being, including zero-waste production in industrial, services, and urban sectors; sustainable forest management.

Greening Agricultural Sector



GAP

Create understanding among farmers by conducting R&D experiment following steps & system of GAP

Expand domestic & foreign markets by supporting the production network/ market, fostering investment, training on production process, verification & certification

Extend agricultural production & processing by PR and increase market distribution

Develop GAP standard system by supporting verification system and sharing partial cost with farmers

Organic Farming

Knowledge management on organic farming by supporting R&D with local wisdom leader, NGOs

Expand domestic & foreign markets by supporting green flea market, doing business on line-website, enhancing capacity of entrepreneurs

Support existing network to be center for organic farming in livelihood, water reservoir, land allocation, price mechanism

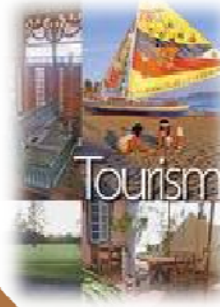
Develop organic farming standard by supporting organic farming legislation

Zero-Waste Management



Urban-City

- Green low carbon city development
- Waste management
- Increase green space in city



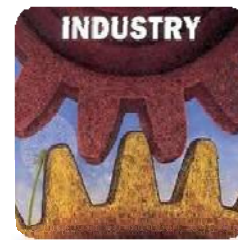
Tourism

- Develop management tools
- Promote envi-friendly tourism
- Increase awareness on envi-friendly tourism
- Foster use of local wisdom



Agriculture

- Discourage open burning after harvesting
- Support agricultural product in processing &
- Use agricultural waste to energy
- Apply appropriate technology



Industry

- Support resource recycling system
- Use economic instruments
- Employ clean technology
- Provide low interest loan for improving equipments
- Create envi-friendly market



Sustainable Forest Management



Law & Legislations

- Set **target in forest mgt.** following the 11th Plan and National Forest Policy
- Solve **forest encroachment** problem systematically
- Encourage **sustainable use of forest**
- Promote **eco-tourism** taking into account **carrying capacity** of each area

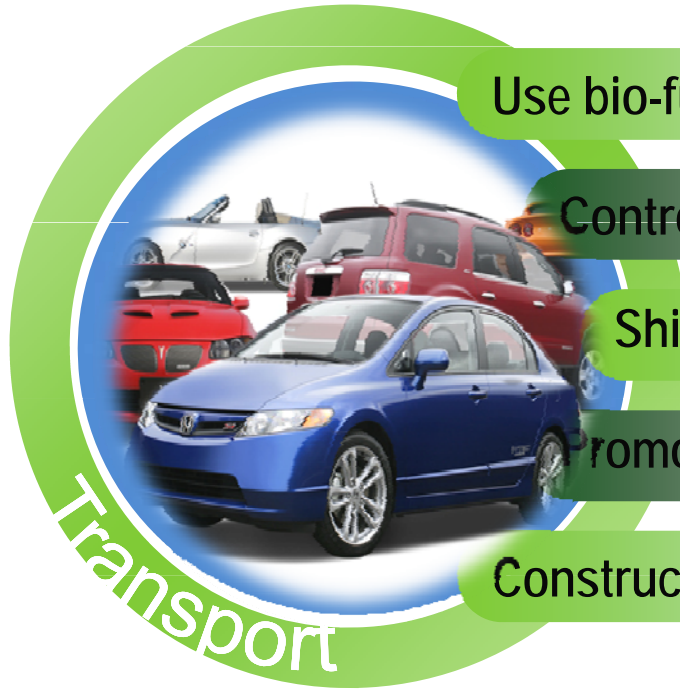
Mgt Tools

- Encourage conservation & sustainable use of forest in **Community Plan**
- Study & evaluate the **values of forest ecosystem services**
- Provide **incentive for private sector** to invest in forest mgt.
- Continue **reforestation** rigorously

New Mechanisms

- Develop clear policy framework, criteria, and practice guideline on **Payment for Ecosystem Service**
- Speed up the formulation of **Strategic Framework on REDD Plus** and **carbon credit** in forest sector
- Foster the establishment of **Tree Bank**

Greening Other Sectors



Use bio-fuel & natural gas

Control fuel economy

Shift travel mode to mass transit

Promote hybrid or electric vehicles

Construct high-speed rail between cities

Industry

Improve efficiency of tools & production process

R&D in production technology
clean products



Next Steps of the 11th Plan



Reinforce the Key Issues for Low Carbon Transition

The 2012 NESDB Year End Conference

- Sustainable consumption & production:**
 - Producers change to environmental-friendly production process
 - Consumers make the right choice on green products & services
- Green public procurement**
- Green building; Green City**
- Green infrastructure: shifting traveling mode from road to rail**
- Equitable right in access & use of natural resources**
- Encourage sustainable use of natural capital**
- Provide legal incentives for investment promotion**
- Use of tax and fiscal measures in environmental mgt.**
- CSR in private sector**





Thank You!

